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WATER SUPPLY OUTLOOK FOR IDAHO

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MAY 25 1973

PROCUREMENT SECTION
CURRENT SERIAL RECORDS

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAY 1, 1973

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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|||||
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SNOW SURVEY SECTION
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WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MAY 1, 1973

Precipitation at all elevations throughout the state was below normal during April. Snow-water equivalent as measured near May 1 ranges from below average for the northern tributary watersheds of the Snake River to critically low on north Idaho drainages. The southern tributary watersheds range from normal to above average.

April temperatures in general were above normal throughout the state. Soil moisture is below normal at lower elevations, near average at middle elevations and below normal at high elevations where snowmelt has not started significantly. The combination of warm temperatures, poor soil moisture, and deficient precipitation has resulted in earlier than normal reservoir releases to meet irrigation demands. Storage in irrigation reservoirs remains good to excellent; however, the early drawdown for irrigation could adversely affect late season supplies on some drainages.

The combination of below average snow-water equivalent, deficient April precipitation and warm temperatures has resulted in a general reduction in the forecasts for seasonal streamflow. Reductions range from one to ten percent, with forecasts varying from a low of 48% of average for the Spokane at Post Falls to 112% of normal for Inflow to Oakley Reservoir.

RESERVOIR STORAGE (1,000 Ac. Ft.)

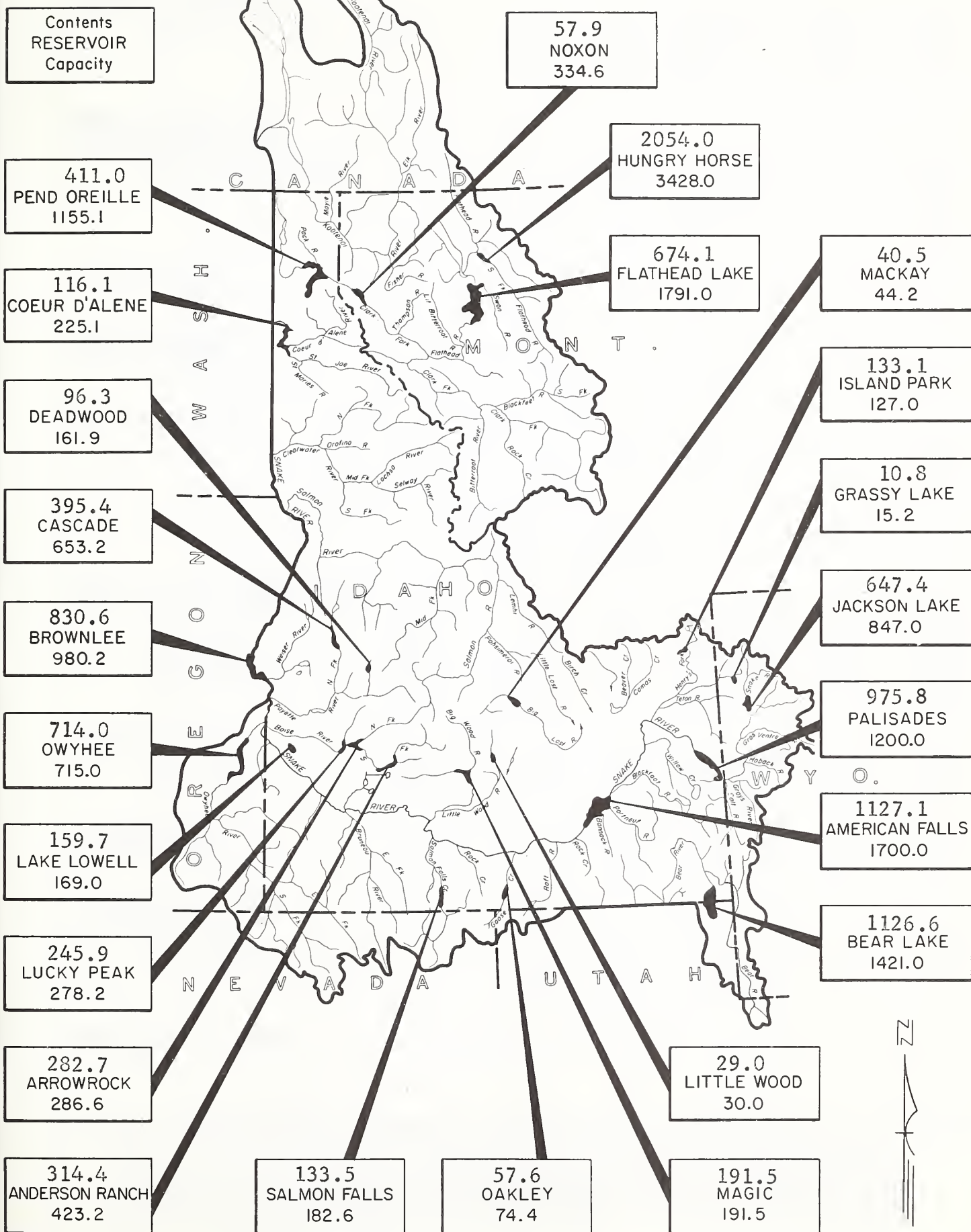
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1953-57 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2054.0	1255.0	1974.0*
Flathead	1791.0	674.1	976.2	933.7
Pend Oreille	1155.1	411.0	346.0	493.8
Noxon	334.6	57.9	181.5	144.9*
<u>Spokane</u>				
Coeur d'Alene	225.1	116.1	208.7	286.6
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	647.4	500.6	438.8
Palisades	1200.0	975.8	199.0	803.4*
American Falls	1700.0	1127.1	1649.9	1664.3
Island Park	127.0	133.1	136.4	133.1
Grassy Lake	15.2	10.8	14.7	11.5
Brownlee	980.2	830.6	21.2	515.2*
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	57.6	50.0	24.3
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	133.5	148.4	46.9
<u>Big Lost</u>				
Mackay	44.2	40.5	31.5	33.5
<u>Big Wood</u>				
Magic	191.5	191.5	191.5	167.7
<u>Little Wood</u>				
Little Wood	30.0	29.0	29.9	21.5*
<u>Fish Creek</u>				
Carey Valley	14.4	11.2	13.9	--
<u>Boise</u>				
Anderson Ranch	423.2	314.4	253.6	284.4
Arrowrock	286.6	282.7	142.3	230.7
Lucky Peak	278.2	245.9	55.6	147.3*
Lake Lowell (Deer Flat)	169.0	159.7	153.1	156.3
<u>Owyhee</u>				
Owyhee	715.0	714.0	708.5	531.9
<u>Payette</u>				
Cascade	653.2	395.4	218.3	327.8
Deadwood	161.9	96.3	86.0	89.1
<u>Weiser</u>				
Mann Creek	11.1	11.3	10.5	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1126.6	1204.1	951.9
*Period of Record.				

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1973

50 0 50 100 150
SCALE IN MILES



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

UPPER COLUMBIA BASINKOOTENAI RIVER

Leonia	(at)	6850	82	May-Sep	10299	8397
		5900	81	May-Jul	8961	7271
		4500	79	May-Jun	7056	5662

PEND OREILLE RIVERClark Fork River

Whitehorse Rapids	(at)	8100	66	May-Sep	--	12313
		7100	64	May-Jul	--	11112
		5900	64	May-Jun	--	9278

Priest River

Priest River <u>1/</u>	(nr)	470	65	May-Jul	802	721
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SPOKANE RIVER

Post Falls <u>2/</u>	(at)	1010	48	May-Sep	3071	2110
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St. Joe River

Calder	(at)	500	48	May-Sep	--	1040
		470	48	May-Jul	1501	974

SNAKE RIVER BASINSNAKE RIVER - MAIN STEM

Moran <u>3/</u>	(at)	678	80	Apr-Sep	1131	800
Heise <u>4/</u>	(nr)	2760	81	May-Sep	4870	3410
Blackfoot <u>5/</u>	(nr)	2850	81	May-Jul	4548	3521
Weiser	(at)	3250	65	May-Sep	6219	5002

Henrys Fork

Ashton <u>6/</u>	(nr)	475	93	May-Sep	680	513
Rexburg <u>7/</u>	(nr)	1035	94	May-Sep	1622	1100

Teton River

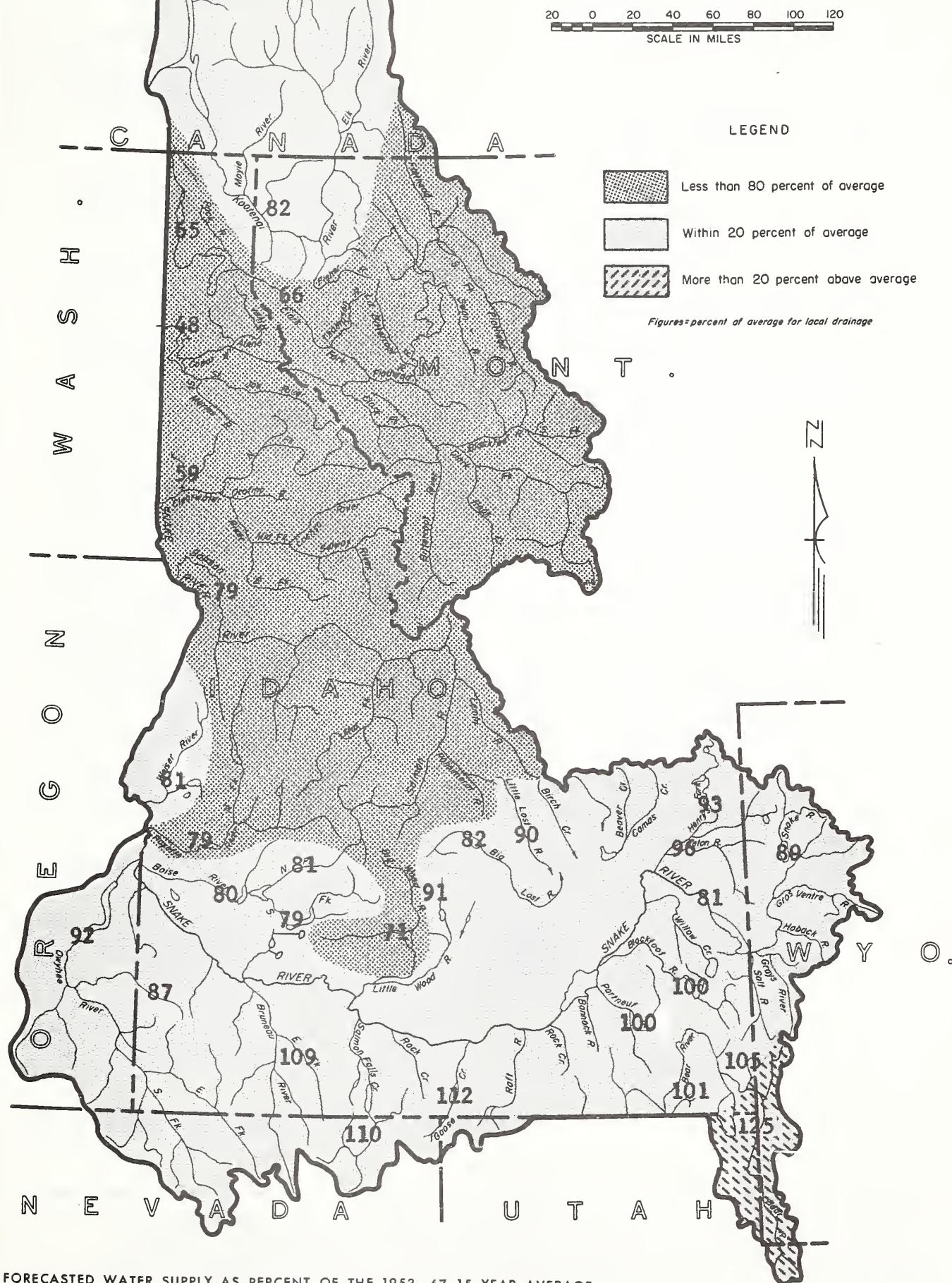
St. Anthony	(nr)	340	96	May-Sep	520	353
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Blackfoot River

Blackfoot Reservoir Inflow		102	100	Apr-Sep	--	102*
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*1948-1962 Average

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake.
2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake.
4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
[†] 1953-1967 period.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>Portneuf River</u>						
Topaz	(at)	56	100	May-Sep	--	56.2
<u>Oakley Reservoir Inflow</u>		17.5	112	May-Sep	34.4	15.6
<u>Salmon Falls Creek</u>						
San Jacinto	(nr)	51	110	May-Sep	69	46.3
		48	112	May-Jul	64	43.0
<u>Bruneau River</u>						
Hot Springs	(nr)	155	109	May-Sep	--	142
<u>Little Lost River</u>						
Howe	(nr)	27.5	90	May-Sep	--	30.6
<u>Big Lost River</u>						
Howell Ranch	(at)	155	83	May-Sep	187	186
		110	86	May-Jun	139	128
Mackay <u>1/</u>	(nr)	130	82	May-Sep	164	159
<u>Big Wood River</u>						
Magic Reservoir		130	71	May-Sep	222	184
Inflow <u>2/</u>		115	72	May-Jul	207	161
<u>Little Wood River</u>						
High Five Creek	(ab)	57	91	May-Sep	53	63
<u>Boise River</u>						
Twin Springs	(nr)	480	81	May-Sep	--	594
		445	82	May-Jul	--	542
Boise <u>3/</u>	(nr)	985	80	May-Sep	--	1230
<u>South Fork</u>						
Anderson Dam <u>4/</u>	(at)	360	77	May-Sep	--	468
<u>Owyhee River</u>						
Gold Cr., Nev. <u>5/</u>	(nr)	11	137	May-Jul	--	8
Owyhee, Nev. <u>5/</u>	(nr)	45	118	May-Jul	--	38
Lake Owyhee		167	93	May-Sep	200	179
net inflow <u>6/</u>		147	92	May-Jul	176	160
<u>Jordan Creek</u>						
Lone Tree Creek	(ab)	42	87	May-Jul	--	48.3*

*1955-1967 Average.

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir
2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrow-
 rock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for
 storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.
 † 1953-1967 period.

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS			THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET			
	Thousand Acre Feet	Percent of Average		Last Year	Average †		
<u>Payette River</u>							
Horseshoe Bend <u>1/</u>	(nr)	1190	79	May-Sep	--	1510	
Banks <u>2/</u>	(nr)	650	80	May-Jul	--	816	
<u>North Fork</u>							
Cascade <u>3/</u>	(at)	360	79	May-Sep	--	458	
Banks <u>3/</u>	(nr)	450	78	May-Sep	--	574	
<u>Weiser River</u>							
Weiser ab. Crane Creek <u>4/</u>		215	81	May-Sep	--	267	
<u>Salmon River</u>							
Whitebird	(at)	4890	79	May-Sep	--	6190	
<u>Clearwater River</u>							
Spalding	(at)	4025	59	May-Sep	8856	6824	

GREAT BASINBEAR RIVER

Harer	(at)	225	125	May-Sep	--	180
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Montpelier Creek

Montpelier	(nr)	9.1	105	May-Sep	--	8.7
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Cub River

Preston	(nr)	44	101	May-Sep	59.3	43.7*
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*1956-1967 Average.

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. + 1953-1967 period.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Spring		Fall - Winter	
	April 1973		Nov. 72 - Apr. 73	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U. S.	1.00	-0.56	12.32	-2.86
Flathead	1.03	-0.65	7.24	-4.57
Clark Fork	0.41	-0.67	3.27	-2.23
Pend Oreille-Spokane	1.17	-1.16	14.42	-6.16
Upper Snake	1.41	-0.38	9.89	-1.93
Snow River Plain	0.59	-0.40	5.46	-0.16
Salmon-Payette-Boise	0.93	-0.78	10.18	-2.66
Clearwater	0.30	-2.02	11.49	-4.94
Owyhee-Malheur	0.56	-0.31	5.56	-0.49

1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1953-67) drainage division average.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

UPPER COLUMBIA RIVER BASINKOOTENAI RIVER

Bear Mountain	5400	5/2	87	43.3	96.1	--
Halverson Creek	4850	5/2	58	28.8	64.8	--
Smith Creek	4800	5/1	72	33.4	59.8	49.4

PEND OREILLE - PRIEST RIVER

Benton Meadow	2344	5/1	0	0.0	0.0	0.0
Benton Spring	4900	5/1	21	9.4	19.2	17.1
#Mosquito Ridge (A)	5110	5/1	48	20.6	--	39.2*
#Mosquito Ridge (SP)	5110	5/1	--	23.0	47.0	--
Schweitzer Bowl	4500	5/1	28	12.7	32.7	--
Schweitzer Ridge	6100	5/1	83	36.7	57.8	--

HAYDEN LAKE

Chilco Ridge	3650	4/27	0	0.0	--	--
Conie Creek Ridge	3900	4/27	0	0.0	--	--
Corner Creek	3150	4/27	0	0.0	--	--
Sage Creek Saddle	4100	4/27	0	0.0	--	--
Ulrich Creek	2800	4/27	0	0.0	--	--

SPOKANE RIVER

Above Burke	4100	5/1	9	3.0	32.1	--
Copper Ridge	4800	4/30	0	0.0	40.3	27.8
#Forty-nine Meadows	5000	4/25	25	10.0	42.6	30.6*
Fourth of July Summit	3100	5/1	0	0.0	0.0	--
Granite Peak	6000	4/25	73	30.9	--	--
Kellogg Peak (A)	5560	5/1	32	13.8	--	--
Lookout	5250	5/1	39	16.8	54.0	36.7
#Lost Lake	6000	4/25	86	35.6	84.7	62.7*
Lower Sands Creek	3400	4/30	0	0.0	28.0	14.6
Medicine Ridge	6150	4/25	76	31.2	74.7	--
Mosquito Ridge (A)	5110	5/1	48	20.6	--	39.2*
Mosquito Ridge (SP)	5110	5/1	--	23.0	47.0	--
Roland Summit (A)	5200	5/1	30	12.9	--	--
Sherwin	3200	4/27	0	0.0	18.4	--
Sunset (A)	5600	5/1	39	16.8	--	--

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	3340	4/27	0	0.0	0.0	0.0*
East Twin	4050	4/27	0	0.0	0.0	2.1*

(b) 1953-67, 15 year period. #Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ⁶

Howard Creek	3450	4/27	0	0.0	0.0	0.0*
Moscow Mountain	4400	4/27	T	T	20.1	11.6*
West Twin	4250	4/27	0	0.0	0.0	0.0*

CLEARWATER RIVER

Anderson Butte (A)	6800	4/30	72	32.4	61.4	--
Anderson Ridge (A)	5400	4/30	17	7.5	27.7	--
Buck Meadows	5600	4/30	40	16.2	54.2	--
Cayuse Airstrip	3700	4/26	0	0.0	0.0	0.9*
Coolwater Mountain	6200	4/26	60	24.4	62.5	30.6*
Coolwater Mountain (R)	6200	4/27	--	20.1	--	--
Coolwater Mountain (SP)	6200	4/26	--	15.2	51.2	--
Crater Meadows	6100	4/26	66	32.0	73.9	47.2*
Crooked Fork	3600	4/30	0	0.0	13.7	--
Elk Butte	5550	4/25	38	16.3	49.3	35.8*
Elk Mountain	7500	4/30	75	35.3	74.4	--
Fish Lake Airstrip	5000	4/26	55	24.4	67.1	42.2*
Forty-nine Meadows	5000	4/25	25	10.0	42.6	30.6*
Goat Lake	6600	4/26	84	36.9	73.1	--
#Granite Peak	6000	4/25	75	30.9	--	--
Hemlock Butte	5500	4/25	87	35.8	82.2	53.9*
Hemlock Butte (SP)	5500	4/25	--	31.1	98.1	--
#Hoodoo Basin Mont.	6000	5/1	78	34.8	88.0	55.8
#Hoodoo Basin (SP) Mont.	6000	5/1	--	32.1	84.3	--
#Hoodoo Creek Mont.	5900	5/1	75	31.6	85.9	52.0*
Horse Creek #1 (A)	5500	4/30	11	4.7	--	--
Horse Creek #2 (A)	5100	4/30	27	10.8	39.2	--
Horse Creek Helispot	4100	4/30	0	0.0	26.0	--
Lolo Pass	5250	4/30	33	13.5	51.9	32.7*
Lost Lake	6000	4/25	86	35.6	84.7	62.7*
Meadow Creek Lookout (A)	7000	4/30	51	23.0	51.4	--
#Medicine Ridge	6150	4/25	76	31.2	74.7	--
Mill Site (SP)	6700	4/30	53	21.8	51.0	--
Mountain Meadows	6300	4/30	42	16.4	39.8	--
#Nez Perce Pass Mont.	6575	4/27	29	10.7	28.0	13.9
Orogrande Mountain	7800	4/26	81	30.1	59.1	48.0*
Orogrande Mountain (R)	7800	4/27	--	27.6	57.9	--
Pierce Ranger Station	3170	5/1	0	0.0	6.3	1.9*
Powell Ranger Station	3410	4/30	0	0.0	6.6	--
Savage Pass	6160	4/30	44	17.2	44.1	--
Savage Pass (New)	6160	4/30	46	17.4	--	--
Shanghai Summit	4600	4/25	26	12.0	42.0	24.0*

SALMON RIVER

Big Creek Summit	6600	4/25	67	26.2	50.8	36.1
#Boulder Creek	5500	4/30	17	8.2	21.4	15.9*
Brundage Mountain	7560	4/26	88	38.5	61.9	--
#Deadwood Summit	7000	5/2	70	33.5	58.8	46.3*

(b) 1953-67, 15 year period. #Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b
#Galena Summit	8795	4/30	52	18.1	33.8	24.5
#Gibbons Pass	Mont. 7100	4/30	51	20.2	36.6	23.1
Mill Creek Summit	3870	4/30	50	16.4	32.2	--
Moose Creek	6200	4/27	36	11.8	24.0	12.3*
Morgan Creek	7580	4/30	28	9.6	15.9	14.2*
#Rock Flat Summit	5200	4/26	27	10.2	22.2	15.7*
#Secesh Summit	6600	4/26	66	28.5	47.3	--
#Squaw Meadow	5800	4/26	62	28.0	47.8	36.0*
Vienna Mine	8900	5/2	65	27.7	54.7	38.5*

Lemhi River

Above Gilmore	8200	5/1	27	8.0	13.3	--
Meadow Lake	9100	5/1	51	16.6	27.0	--

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>SPOKANE RIVER</u>							
Fourth of July Summit	3100	48	11.6	5/1	10.2	10.0	10.2
Lookout	5250	48	11.0	5/1	8.4	8.5	9.2
<u>SALMON RIVER</u>							
Mill Creek Summit	3870	48	8.4	4/30	3.4	3.8	5.5
<u>Lemhi River</u>							
Above Gilmore	8200	60	5.4	5/1	2.6	4.2	2.9
Meadow Lake	9100	48	4.4	5/1	2.1	2.5	2.4

(b) 1953-67, 15 year period. #Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

Wet Creek Summit	7600	4/30	30	9.0	--	--
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BIG LOST RIVER

Bear Canyon	7920	Delayed			16.4	--
Copper Basin	7650	Delayed			4.8	--
Iron Bog	7650	4/27	12	4.2	--	--
Leadbelt	6800	4/27	T	T	--	--
Stickney Mill	7500	5/4	10	3.1	3.3	--

LITTLE WOOD RIVER

#Bear Canyon	7920	Delayed			16.4	--
Garfield Ranger Station	6554	4/27	T	T	--	--
Muldoon	6300	4/27	0	0.0	--	--
Swede Peak	7650	4/27	34	13.0	14.6	14.6*

BIG WOOD RIVER

#Couch Summit	6950	4/26	27	11.4	15.9	11.4*
Galena	7300	4/30	24	8.8	20.6	14.6
Galena Summit	8795	4/30	52	18.1	33.8	24.5
Graham Ranch	6200	4/30	9	3.2	7.2	--
Mascot Mine	7900	5/1	25	8.8	13.3	--
Mount Baldy	9000	5/2	50	16.4	26.6	21.8
Soldier Ranger Station	6100	4/26	0	0.0	--	--
#Vienna Mine	8900	5/2	65	27.7	54.7	38.5*

BOISE RIVER

Atlanta Summit	7500	4/30	65	28.9	49.9	35.4*
Bad Bear	5500	5/2	0	0.0	17.3	4.1*
#Bogus Basin	6120	5/2	30	13.3	36.2	22.0
Bogus Basin Road	5360	5/2	0	0.0	--	0.0*
Couch Summit	6950	4/26	27	11.4	15.9	11.4*
Jackson Peak	7000	5/2	58	25.4	44.7	32.9*
Moore's Creek Summit	6100	5/2	51	22.2	49.0	29.7
#Soldier Ranger Station	6100	4/26	0	0.0	--	--
Trinity Mountain	7780	4/30	74	33.6	61.4	42.9*
#Vienna Mine	8900	5/2	65	27.7	54.7	38.5*

(b) 1953-67 15 year period. #Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average \bar{b}

PAYETTE RIVER

#Big Creek Summit	6600	4/25	67	26.2	50.8	36.1
Bogus Basin	6120	5/2	30	13.3	36.2	22.0
#Brundage Mountain	7560	4/26	88	38.5	61.9	--
Cozy Cove	5900	4/27	11	4.4	12.9	8.6
Crawford Rgr. Sta.	4800	4/25	0	0.0	0.0	0.0*
Deadwood Airstrip	5440	4/27	T	T	10.1	6.4*
Deadwood Dam	5290	4/27	7	2.6	13.8	11.2
Deadwood Summit	7000	5/2	70	33.5	58.8	46.3*
#Jackson Peak (A)	7000	5/2	58	25.4	44.7	32.9*
Lake Fork	6000	4/26	19	6.2	18.2	--
Rock Flat Summit	5200	4/26	27	10.2	22.2	15.7*
Secesh Summit	6600	4/26	66	28.5	47.3	--
Squaw Meadow	5800	4/26	62	28.0	47.8	36.0*

WEISER RIVER

Boulder Creek	5500	4/30	17	8.2	21.4	15.9*
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SOIL MOISTURE

SOIL MOISTURE		PROFILE (Inches)		SOIL MOISTURE (Inches)			
STATION		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>BIG WOOD RIVER</u>							
Galena	7300	48	10.1	4/30	9.1	8.8	8.6
Galena Summit	8795	48	5.8	4/30	1.7	1.8	Frozen

(b) 1953-67, 15 year period. #Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Howell Canyon	8000	5/1	58	25.2	43.6	--
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GOOSE CREEK

Badger Gulch	6660	5/1	24	9.4	15.3	--
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SALMON FALLS CREEK

#Bear Creek (A)	Nev.	7800	4/25	73	27.8	24.0	19.4*
Cedar Creek (A)		7000	4/25	12	5.4	T	2.1*
Deadline		6900	4/26	51	23.0	35.6	18.1*
Goat Creek	Nev.	3800	4/26	58	21.2	26.5	18.2*
#Hummingbird Spgs. (A)	Nev.	8945	4/25	73	27.8	42.4	22.8*
Magic Mountain		6700	4/26	44	18.6	30.1	14.5*
#Pole Creek R. S.	Nev.	3330	4/26	63	24.0	28.4	21.6*
Red Point (A)	Nev.	7940	4/25	22	8.4	8.4	9.0*
Wilson Creek (A)		7500	4/25	24	9.1	5.2	--

BRUNEAU RIVER

Bear Creek (A)	Nev.	7800	4/25	73	27.8	24.0	19.4*
Hummingbird Spgs. (A)	Nev.	8945	4/25	73	27.8	42.4	22.8*
Pole Creek R. S.	Nev.	3330	4/26	63	24.0	28.4	21.6*

OWYHEE RIVER

Antelope Ridge		5900	5/1	0	0.0	--	--
#Bear Creek	Nev.	7800	4/25	73	27.8	24.0	19.4*
Mud Flat		5500	5/1	0	0.0	--	--
Silver City		6400	5/1	11	4.7	21.5	6.7*
South Mountain		6340	4/30	8	2.8	12.8	--

(b) 1953-67, 15 year period. #Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ⁶

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Howell Canyon	8000	5/1	58	25.2	43.6	--
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GOOSE CREEK

Badger Gulch	6660	5/1	24	9.4	15.3	--
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SALMON FALLS CREEK

#Bear Creek (A)	Nev.	7800	4/25	73	27.8	24.0	19.4*
Cedar Creek (A)		7000	4/25	12	5.4	T	2.1*
Deadline		6900	4/26	51	23.0	35.6	18.1*
Goat Creek	Nev.	8800	4/26	58	21.2	26.5	18.2*
#Hummingbird Spgs.(A)	Nev.	8945	4/25	73	27.8	42.4	22.8*
Magic Mountain		6700	4/26	44	18.6	30.1	14.5*
#Pole Creek R. S.	Nev.	3330	4/26	63	24.0	28.4	21.6*
Red Point (A)	Nev.	7940	4/25	22	8.4	8.4	9.0*
Wilson Creek (A)		7500	4/25	24	9.1	5.2	--

BRUNEAU RIVER

Bear Creek (A)	Nev.	7800	4/25	73	27.8	24.0	19.4*
Hummingbird Spgs.(A)	Nev.	8945	4/25	73	27.8	42.4	22.8*
Pole Creek R. S.	Nev.	3330	4/26	63	24.0	28.4	21.6*

OWYHEE RIVER

Antelope Ridge		5900	5/1	0	0.0	--	--
#Bear Creek	Nev.	7800	4/25	73	27.8	24.0	19.4*
Mud Flat		5500	5/1	0	0.0	--	--
Silver City		6400	5/1	11	4.7	21.5	6.7*
South Mountain		6340	4/30	8	2.8	12.8	--

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SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>RAFT RIVER</u>							
Howell Canyon	8000	48	11.5	5/1	9.3	8.0	10.4
<u>GOOSE CREEK</u>							
Badger Gulch	6660	36	7.0	5/1	6.5	7.3	7.3
<u>SALMON FALLS CREEK</u>							
Deadline	6900	36	7.4	4/26	7.8	--	7.5
Patrick Ranch	5720	36	7.7	4/26	6.7	--	8.6
Pole Creek R. S.	8330	48	9.7	4/26	8.1	--	9.3

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

UPPER SNAKE RIVER BASIN

HENRYS FORK RIVER

Big Springs		6500	4/30	40	16.6	19.8	17.0*
Big Springs (New)		6500	4/30	38	14.5	--	--
Black Canyon		7850	4/25	83	34.3	47.6	--
Black Canyon (New)		7850	4/25	86	33.8	--	--
Black Moose		8125	4/25	96	38.2	53.6	--
Grassy Lake	Wyo.	7230	4/30	72	31.0	45.3	32.6
Island Park		6315	4/30	21	8.1	7.0	9.7*
Island Park (New)		6315	4/30	25	9.0	--	--
Latham Springs		7650	4/25	82	34.2	40.4	--
Latham Springs (New)		7650	4/25	85	33.8	--	--
Lucky Dog		6900	4/25	60	23.6	29.2	--
Lucky Dog (New)		6900	4/25	44	17.7	--	--
Sawtelle Mountain		8715	4/30	90	33.5	43.7	--
Targhee Pass		7000	4/30	31	9.6	16.9	14.0*
Valley View		6500	4/30	25	8.0	12.8	13.0*
White Elephant		7700	4/30	63	24.6	--	--

TETON RIVER

Darby Canyon (A)	Wyo.	8250	4/27	67	23.1	--	--
Freds Mountain	Wyo.	8000	4/27	62	22.7	32.9	--
Garns Mountain	Wyo.	8300	Delayed		--	--	--
Indian Meadows	Wyo.	8200	Delayed		--	--	--
Jackpine Creek	Wyo.	7500	4/27	58	22.1	--	--
McRenold Reservoir		6800	4/27	49	18.6	--	--
Miles Creek	Wyo.	7500	4/27	32	12.0	--	--
Phillips Bench		8200	4/27	66	23.8	--	--
Pine Creek Pass		6750	4/27	38	15.6	15.3	11.0*
State Line		6400	4/27	33	12.2	10.7	8.5
Teton Pass W.S.	Wyo.	8400	4/27	71	27.1	--	--

BLACKFOOT RIVER

Slug Creek Divide	7225	4/27	37	14.8	19.6	--
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SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>HENRYS FORK RIVER</u>							
Island Park	6315	48	9.9	4/30	9.5	9.6	9.2
Valley View	6500	48	13.3	4/30	7.6	11.7	11.8

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

GREAT BASINBEAR RIVER

Emigrant Summit	7350	4/26	59	23.8	32.1	21.5*
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Montpelier Creek

Giveout	6840	4/26	30	10.8	11.6	--
Little Beaver	6970	4/26	36	12.8	21.9	--
Lower Home Canyon	7500	4/26	34	11.0	--	--
Montpelier Creek	6570	4/26	11	3.7	--	--
Upper Home Canyon	8500	4/26	63	21.5	--	--
Whiskey Flat	6985	4/26	20	6.9	3.5	--

Mink Creek

Christensen Ranch	5600	4/30	0	0.0	0.0	0.0*
#Emigrant Summit	7350	4/26	59	23.8	32.1	21.5*
Liberty Spring	8600	4/30	95	36.9	53.0	39.4*
Strawberry Creek	5800	4/30	16	5.9	0.0	2.1*
Strawberry Mink Divide	6800	4/30	48	19.8	19.2	14.1*

Cub River

Cub River R. S.	5400	5/1	0	0.0	0.0	0.0*
Willow Flat	6100	5/1	15	5.6	0.0	3.3*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>BEAR RIVER</u>							
Emigrant Summit	7350	36	8.4	4/26	6.6	7.7	7.3
Strawberry Creek	5800	48	12.7	4/30	12.6	12.3	12.9
<u>Montpelier Creek</u>							
Giveout Pass	7025	36	9.4	4/26	4.3	7.5	7.6
Jenson Ranch	6580	48	18.7	4/26	13.1	16.1	17.9

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Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Department of Water Administration
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
Agriculture Research Service

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*

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